TSCA NON-CONFIDENTIAL BUSINESS INFORMATION

DOCUMENT DESCRIPTION	DOCUMENT CONTROL HUMBER	DATE RECEIVED
CAIR	190-890000227	6-9-89

EDMMENTS:

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Hi-Tek Polymers, Inc.

Hi-Tek Polymers, Inc. 4690 Worth Street

Los Angeles, California 90063-1630

Telephone: 213-266-4435 Facsimile: 213-266-4438

CONTAINS NO COM-9 PM 2: 54

OFF South Control Control

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June 6, 1989

90-890000227

Document Processing Center Office of Toxic Substances, TS-790 U. S. Environmental Protection Agency 401 M Street, SW Washington, D.C. 20460

Attention: CAIR Reporting Office

Dear Sir:

Enclosed is the CAIR reporting form for this facility. If you have any questions or comments, please contact me at (213) 266-0625.

Sincerely,

Raymond R. Bauer

Environmental, Health &

Safety Affair Superintendent

RRB: fga

RRB-023-9



89 JUN - 9 PH 2: 54

STS ASSUBATAT CONTRUL OFFICE Form Approved
OMB No. 2010-0019
Approval Expires 12-31-89

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

For Agency Use Only:

Date of Receipt:

Document
Control Number:

Docket Number:

EPA Form 7710-52

SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION

		ENERAL REPORTING INFORMATION
1.01		s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
<u>CBI</u>	COM	pleted in response to the <u>Federal Register</u> Notice of $[1]2]2[2]2[8]8$
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]2]6]4]7]1]-[6]2]-[5]$
	ъ.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule N/A
		(ii) Name of mixture as listed in the rule N/A
		(iii) Trade name as listed in the rule N/A
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule N/A
		CAS No. of chemical substance
		Name of chemical substance N/A
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
<u>CBI</u>		ufacturer 1
[_]		orter 2
	Pro	cessor
	X/P	manufacturer reporting for customer who is a processor 4
	X/P	processor reporting for customer who is a processor 5
[_]	Mark	(X) this box if you attach a continuation sheet.

1.0 CBI	i Y	in tl 'es	he abo	substance you are reporting on have an "x/p" designation associated with it ove-listed Federal Register Notice? [X] Go to question 1.04
1.0 CBI]) }	under Circle Yes No Check	manufacture, import, or process the listed substance and distribute it a trade name(s) different than that listed in the Federal Register Notice? the appropriate response. 1 the appropriate box below: You have chosen to notify your customers of their reporting obligations Provide the trade name(s)
			<u></u> N <u>/</u> A)	You have chosen to report for your customers You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.0 CBI	r J I Y	eporrade s th	ting name	a trade name product and are reporting because you were notified of your requirements by your trade name supplier, provide that trade name. MONDUR TD-80 de name product a mixture? Circle the appropriate response.
1.0 <u>CBI</u> [S H	ign I he nter Ra	the cereby ed on	ion The person who is responsible for the completion of this form must ertification statement below: certify that, to the best of my knowledge and belief, all information this form is complete and accurate." d R. Bauer NAME Approximately R. Bauer NAME SIGNATURE DATE SIGNED apperintendent (213) 266 - 0625 TITLE TELEPHONE NO.

<u>CBI</u>	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.				
	information which I have	to the best of my knowledge and not included in this CAIR Repor years and is current, accurate, rule."	ting Form has been submitted		
	N/A	N/A	N/A		
	NAME	SIGNATURE	DATE SIGNED		
	N/A	() N/A -	N/A		
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION		
	and it will continue to t	sures to protect the confidential sake these measures: the information	ality of the information,		
[_]	and it will continue to the been, reasonably ascertain using legitimate means (or a judicial or quasi-judicial information is not public would cause substantial horses.	ake these measures; the informa- nable by other persons (other the other than discovery based on a standard proceeding) without my comparting and discovery to my company's competitive	tion is not, and has not nan government bodies) by showing of special need in any's consent; the closure of the information position."		
[_]	and it will continue to the been, reasonably ascertain using legitimate means (can judicial or quasi-judicial or quasi-judicial or publicial or publicial or publicial or quasi-judicial or quas	ake these measures; the informa- nable by other persons (other the other than discovery based on a standard proceeding) without my company ally available elsewhere; and discover to my company's competitive	tion is not, and has not han government bodies) by showing of special need in any's consent; the closure of the information position."		
[_]	and it will continue to the been, reasonably ascertain using legitimate means (can judicial or quasi-judicial formation is not publicated would cause substantial handless of the state of	ake these measures; the informal nable by other persons (other that there is then the than discovery based on a still proceeding) without my compartly available elsewhere; and discovery to my company's competitive N/A	tion is not, and has not han government bodies) by showing of special need in any's consent; the closure of the information position." N/A DATE SIGNED		
(_)	and it will continue to the been, reasonably ascertain using legitimate means (can judicial or quasi-judicial or quasi-judicial formation is not public would cause substantial house substantia	ake these measures; the informal nable by other persons (other that there is then then discovery based on a stall proceeding) without my comparty available elsewhere; and discovery to my company's competitive N/A SIGNATURE (tion is not, and has not han government bodies) by showing of special need in any's consent; the closure of the information position." N/A DATE SIGNED N/A		
	and it will continue to the been, reasonably ascertain using legitimate means (can judicial or quasi-judicial formation is not publicated would cause substantial has a N/A NAME	ake these measures; the informal nable by other persons (other that there is then the than discovery based on a still proceeding) without my compartly available elsewhere; and discovery to my company's competitive N/A	tion is not, and has not han government bodies) by showing of special need in any's consent; the closure of the information position." N/A DATE SIGNED N/A		

Address	PART I	B CORPORATE DATA
Address	09	Facility Identification
L O S A N G E L E S City Ci	CBI	Name [H]I]-]T]E]K]]P]O]L]Y]M]E]R]S],]]]]]]]]]
City C A	[_]	Address [4]6]9]0]]W]0]R]T]H]]S]T]R]E]E]T]]]]]]]]]]]]]
Dun & Bradstreet Number		[_]O S_ _ A_ N G_ E _ E _S
EPA ID Number		$\begin{bmatrix} \overline{C} \overline{A} \end{bmatrix}$ $\begin{bmatrix} \overline{9} \overline{10} \overline{0} \end{bmatrix} \overline{0} \overline{0} \overline{0} \overline{0} \overline{0} \overline{0} \overline{0} \overline{0}$
Employer ID Number		Dun & Bradstreet Number
Primary Standard Industrial Classification (SIC) Code		EPA ID Number
Other SIC Code		Employer ID Number
Other SIC Code		Primary Standard Industrial Classification (SIC) Code
1.10 Company Headquarters Identification CBI Name [H]I]-]T]E]K]_]P]O]L]Y]M]E]R]S]_,]]]I]N]C].]]]]][][] [] Address [9]8]0]8]]B]L]U]E]G]R]A]S]S]_]P]A]R]K]W]A]Y]]] Street [L]0]U]I]S]V]I]L]L]E]_]]]]]]]]]]]City Dun & Bradstreet Number		Other SIC Code
CBI Name [H]I]-]T]E]K]_P]O]L]Y]M]E]R]S]_,]]I]N]C].]]][][][][] [] Address [9]8]0]8]_B]L]U]E]G]R]A]S]S]_]P]A]R]K]W]A]Y]_] Street [L]O]U]I]S]V]I]L]L]E]		Other SIC Code
[_] Address [_9]8]0_]8]_]B]_L]U]E]G]R]A]_S]S]_]P]A]R]K]W]A]Y]_] Street [_L]0]U]1]S]V]1]L]L_]E]	1.10	Company Headquarters Identification
L O U I S V I L E	CBI 1	Name [H]I]- T]E]K]]P]O]L]Y]M]E]R]S],]]]]N]C].]]]]]]]
City [K]Y] [4]0]2]9]9][]] State Zip Dun & Bradstreet Number [1]5]-[4]5]1]-[5]6]2	[_]	
Dun & Bradstreet Number $\dots [\overline{1}]\overline{5} - [\overline{4}]\overline{5}\overline{1} - [\overline{5}]\overline{6}\overline{2}$		
		$\begin{bmatrix} \overline{K} \end{bmatrix} \overline{Y} $ $\begin{bmatrix} \overline{4} \end{bmatrix} \overline{0} \overline{2} \overline{9} \overline{9} \overline{9} \overline{9} \overline{9} \overline{9} \overline{9} 9$
	1	Dun & Bradstreet Number $[1][5][6][2][1]$
		Employer ID Number $[3]3]3]1]3]3]5]6]$

	1.11	Parent Company Identification
)	<u>CBI</u>	Name []N]T]E]R]C]H]E]M],]]] N]C]]]]]]]]]]]]]]]
	-	(<u>A</u>) <u>T</u>] <u>L</u>] <u>A</u>] <u>N</u>] <u>T</u>] <u>A</u>]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]
		$\begin{bmatrix} \boxed{G} \boxed{A} \end{bmatrix} \qquad \begin{bmatrix} \boxed{3} \boxed{0} \boxed{3} \boxed{3} \boxed{9} \end{bmatrix} - \begin{bmatrix} \boxed{1} \end{bmatrix} \boxed{1} \boxed{1}$ State
		Dun & Bradstreet Number
	1.12	Technical Contact
	<u>CBI</u>	Name [R]A]Y]M]O]N]D]]R]B]A]U]E]R]]]]]]]]]]]]]]]]]]]]]]Address [4]6]9]0]]W]O]R]T]H]]S]T]R]E]E]T]]]]]]]]]]]]]
		[L]O]S]_]A]N]G]E]L]E]S]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
)		$\begin{bmatrix} \overline{C} \overline{A} \\ \overline{State} \end{bmatrix} = \begin{bmatrix} \overline{9} \overline{0} \\ \overline{2} \overline{1} \end{bmatrix} = \begin{bmatrix} \overline{1} \\ $
	•	Telephone Number
	1.13	This reporting year is from $[\overline{0}] \overline{1}] [\overline{8}] \overline{8}]$ to $[\overline{1}] \overline{2}] [\overline{8}] \overline{8}]$ Mo. Year
(
	[_]	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:						
	N/A						
CBI	Name of Seller []]]]]]]]]]]]]]]]]]						
[_]	Mailing Address []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]						
	Street						
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
	[_]_] [_]_]_]_][_]_]_]_] State						
	Employer ID Number						
	Date of Sale						
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
	Telephone Number						
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:						
CBI	Name of Buyer []]]]]]]]]]]]]]]]]]						
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
	Street						
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
	[_]_] [_]_]_]_][_]_]_]_]_]_ State						
	Employer ID Number						
	Date of Purchase						
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]						
	Telephone Number						
[-]	Mark (X) this box if you attach a continuation sheet.						
·1	[_] mark (x) this box if you attach a continuation sheet.						

1.16 BI	For each classification listed below, state the quantity of the listed substance tha was manufactured, imported, or processed at your facility during the reporting year.			
[_]	Classification	Quantity (kg/yr)		
	Manufactured	•N/A		
	Imported	•N/A		
	Processed (include quantity repackaged)	. 5,797 Kg		
	Of that quantity manufactured or imported, report that quantity:			
	In storage at the beginning of the reporting year	N/A		
	For on-site use or processing	•N/A		
	For direct commercial distribution (including export)	• <u>N/A</u>		
	In storage at the end of the reporting year	•N/A		
	Of that quantity processed, report that quantity:			
	In storage at the beginning of the reporting year	. 248 Kg		
	Processed as a reactant (chemical producer)	. 5,797 Kg		
	Processed as a formulation component (mixture producer)	• <u>N/A</u>		
	Processed as an article component (article producer)	• <u>N/A</u>		
	Repackaged (including export)	•N/A		
	In storage at the end of the reporting year	• <u>975 Kg</u>		

[_] Mark (X) this box if you attach a continuation sheet.

PART	C IDENTIFICATION OF MIXTURES		15.
1.17 CBI	Mixture If the listed subs or a component of a mixture, chemical. (If the mixture co each component chemical for a	provide the following information in properties in properties and the properties of the provided in th	rmation for each component
[_]			Average %
	Component Name	Supplier Name	Composition by Weight (specify precision, e.g., 45% ± 0.5%)
	N/A	N/A	N/A
			Total 100%

[_] Mark (X) this box if you attach a continuation sheet.

or processed during the 3 corporate fiscal years preceding the representation or descending order.	oorting year	in
Year ending	$\cdots \begin{bmatrix} \frac{1}{2} \end{bmatrix} \frac{2}{\text{Mo.}}$	(8)7 Year
Quantity manufactured	N/A	k
Quantity imported	N/A	k
Quantity processed	3,729	kį
Year ending	$\cdots [\overline{1}]\overline{2}$ Mo.	[<u>8</u>]_6 Year
Quantity manufactured	N/A	k
Quantity imported	N/A	k
Year ending	$\cdots \begin{bmatrix} \overline{1} \end{bmatrix} \overline{2}$ Mo.	[<u>8]_5</u>] Yea r
Quantity manufactured	N/A	ke
Quantity imported	N/A	ke
Quantity processed	4,669	kg
Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle all	
Continuous process	N/A	1
	37 / 3	2
Batch process	N/A	3
	or processed during the 3 corporate fiscal years preceding the representation order. Year ending Quantity manufactured Quantity processed Year ending Quantity manufactured Quantity imported Quantity imported Quantity processed Year ending Quantity processed Year ending Quantity processed Year ending Quantity manufactured Quantity manufactured Quantity imported Quantity imported Quantity processed Specify the manner in which you manufactured the listed substance appropriate process types. Continuous process Semicontinuous process	or processed during the 3 corporate fiscal years preceding the reporting year descending order. Year ending

2.06 CBI	Specify the manner in appropriate process ty			Circle all x_{ij}^{μ}
[_]	Continuous process	• • • • • • • • • • • • • • • • • • • •		
	Semicontinuous process	s		• • • • • • • • • • • • • • • • • • • •
	Batch process		••••••	(
2.07 CBI	State your facility's substance. (If you are question.)			
[_]	Manufacturing capacity	,		N/A kg/y
	Processing capacity	• • • • • • • • • • • • • • • • • • • •		N/A kg/y
2.08	If you intend to incremanufactured, imported year, estimate the incovolume.	l, or processed at any	time after your curr	ent corporate fiscal
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
	Amount of increase		Quantity (kg)	
	Amount of increase Amount of decrease	Quantity (kg)	Quantity (kg) N/A	Quantity (kg) 1,553 Kg
		Quantity (kg) N/A	Quantity (kg) N/A	Quantity (kg) 1,553 Kg
		Quantity (kg) N/A	Quantity (kg) N/A	Quantity (kg) 1,553 Kg
		Quantity (kg) N/A	Quantity (kg) N/A	Quantity (kg) 1,553 Kg
		Quantity (kg) N/A	Quantity (kg) N/A	Quantity (kg) 1,553 Kg
		Quantity (kg) N/A	Quantity (kg) N/A	Quantity (kg) 1,553 Kg
		Quantity (kg) N/A	Quantity (kg) N/A	Quantity (kg) 1,553 Kg
		Quantity (kg) N/A	Quantity (kg) N/A	Quantity (kg) 1,553 Kg
		Quantity (kg) N/A	Quantity (kg) N/A	Quantity (kg) 1,553 Kg

2.09	listed substance substance during	argest volume manufacturing or processing proces, specify the number of days you manufactured g the reporting year. Also specify the average s type was operated. (If only one or two operated)	or processed number of h	l the listed nours per
CBI				
[_]			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	N/A	N/A
		Processed URETHANE MODIFIED EPOXY RESIN SOLUTION	18	2.25
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured	N/A	N/A
		Processed	N/A	N/A
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	N/A	N/A
		Processed	<u>N/A</u>	N/A
2.10 <u>CBI</u> [_]	State the maximum substance that the chemical. Maximum daily in Average monthly		y of the lis the form of	ted a bulk kg
	Mark (X) this bo	x if you attach a continuation sheet.		

2.11	Related Product Types List any byproducts, coproducts, or impurities present with the listed substance in concentrations greater than 0.1 percent as it is manufac-
on T	tured, imported, or processed. The source of byproducts, coproducts, or impurities means the source from which the byproducts, coproducts, or impurities are made or
<u>CBI</u>	introduced into the product (e.g., carryover from raw material, reaction product, etc.). N/A - PURE

CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of By- products, Co- products, or Impurities
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

¹Use the following codes to designate byproduct, coproduct, or impurity:

B = Byproduct
C = Coproduct
I = Impurity

_1	the instructions for f	urther explanation a b.	nd an example.)	đ.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users
	K	100%		I
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	Sensitizer D = Inhibitor/Stabili: Antioxidant E = Analytical reagen F = Chelator/Coagulan G = Cleanser/Detergen H = Lubricant/Friction agent I = Surfactant/Emulsi: J = Flame retardant K = Coating/Binder/Add	t t/Sequestrant t/Degreaser n modifier/Antiwear fier hesive and additives	<pre>U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify)</pre>	n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives
	² Use the following code		umer	

13 <u>I</u>	Expected Product Types Identify all product types which you expect to manufa import, or process using the listed substance at any time after your current corporate fiscal year. For each use, specify the quantity you expect to manufa import, or process for each use as a percentage of the total volume of listed substance used during the reporting year. Also list the quantity of listed sub used captively on-site as a percentage of the value listed under column b., and types of end-users for each product type. (Refer to the instructions for furthexplanation and an example.)							
	a.	b.	c.	d.				
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users				
	K	100%		I				
	N/A	N/A	N/A	N/A				
	N/A	N/A	N/A	N/A				
	N/A	N/A	N/A	N/A				
	N/A	N/A	N/A	N/A				
	N/A	N/A	N/A	N/A				
	A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh	t r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear fier nesive and additives	L = Moldable/Castable M = Plasticizer N = Dye/Pigment/Color O = Photographic/Represent additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemical S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a W = Rheological modif X = Other (specify)	rant/Ink and additive rographic chemicals ditives als and additives chemicals chemicals s and additives				
	Use the following code I = Industrial CM = Commercial	CS = Cons						

 a.	b.	c. Average % Composition of	d.	
Product Type ¹	Final Product's Physical Form ²	Listed Substance in Final Product	Type of End-Users ³	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
agent I = Surfactant/Emu	gent lant/Sequestrant gent/Degreaser tion modifier/Antiwear	and additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a	litives als and additives chemicals chemicals and additives additives	
Antioxidant E = Analytical rea F = Chelator/Coagu G = Cleanser/Deter H = Lubricant/Fric agent I = Surfactant/Emu J = Flame retardan K = Coating/Binder 2Use the following A = Gas B = Liquid C = Aqueous solution D = Paste E = Slurry F1 = Powder	gent lant/Sequestrant gent/Degreaser tion modifier/Antiwear lsifier t /Adhesive and additive codes to designate the F2 = Cry F3 = Gra on F4 = Oth G = Gel	and additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a W = Rheological modifies X = Other (specify) e final product's physic ystalline solid anules er solid her (specify)	n/Plating chemica litives als and additives chemicals chemicals and additives additives fier	

2.15 CBI	Circ.	le all applicable modes of transportation used to deliver bunded substance to off-site customers. $_{ m N/A}$	ulk shipments o	of the
$_{1}^{-}$	Truc	k		1
-		car		
		e, Vessel		
	_	line		_
		e		_
	Othe	(specify)	••••••	6
CBI	or p	omer Use Estimate the quantity of the listed substance us repared by your customers during the reporting year for use and use listed (i-iv). N/A IMPURITY	ed by your cus under each cat	stomers tegory
[_]	Cate	gory of End Use		
	i.	Industrial Products		
		Chemical or mixture	N/A	kg/yr
		Article		
	ii.	Commercial Products		
		Chemical or mixture	N/A	kg/yr
		Article	N/A	_ kg/yr
	iii.	Consumer Products		
		Chemical or mixture	N/A	_ kg/yr
		Article	N/A	kg/yr
	iv.	<u>Other</u>		
		Distribution (excluding export)	N/A	_ kg/yr
		Export	N/A	kg/yr
		Quantity of substance consumed as reactant	N/A	kg/yr
		Unknown customer uses	N/A	kg/yr
		•		
1	Mark	(X) this box if you attach a continuation sheet.		

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trade The average price is the market value of the product substance.	es are treated as	purchases.
[_]	Source of Supply	Quantity (kg)	Average Pric (\$/kg)
	The listed substance was manufactured on-site.	N/A	N/A
	The listed substance was transferred from a different company site.	N/A	N/A
	The listed substance was purchased directly from a manufacturer or importer.	6,985 Kq	\$2.94/Kg
	The listed substance was purchased from a distributor or repackager.	N/A	N/A
	The listed substance was purchased from a mixture producer.	N/A	N/A
3.02 CBI [_]	Circle all applicable modes of transportation used to your facility. Truck Railcar Barge, Vessel Pipeline Other (specify)		
	······································	••••••••••••••••	

(3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to you facility.	ır
	(<u> </u>		Bags	. 1
			Boxes	. 2
			Free standing tank cylinders	. 3
			Tank rail cars	. 4
			Hopper cars	. 5
			Tank trucks	. 6
			Hopper trucks	
			Drums	_
			Pipeline	<u> </u>
			Other (specify)	
		b.	If the listed substance is transported in pressurized tank cylinders, tank raicars, or tank trucks, state the pressure of the tanks.	
			Tank cylinders	mHg
			Tank rail cars	mHg
			Maryla Access	mHg
			<i>;</i>	
. F. (Mari	(X) this box if you attach a continuation sheet.	

PART B RAW MATERIAL IN THE FORM OF A MIXTURE

3.04	If you obtain the listed substance in the form of a mixture, list the trade name(s)
CBI	of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of the average percent composition by weight of the listed substance in the mixture, and the
[-]	amount of mixture processed during the reporting year. N/A NOT A MIXTURE
·	Average

Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

] Mark (X) this box if you attach a continuation sheet.

3.05 CBI	reporting year in the for	e listed substance used as a rm of a class I chemical, clase by weight, of the listed subs	ss II chemical, or polymer, and
lj		Quantity Used (kg/yr)	<pre>% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision</pre>
	Class I chemical	5,797	100
		N/A	N/A
		N/A	N/A
	Class II chemical	N/A	N/A
		N/A	N/A
		N/A	N/A
	Polymer	N/A	N/A
	8	N/A	N/A
		N/A	N/A

]	Mark	(X)	this	box	if	you	attach	a	continuation	sheet.	
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SECTION 4 PHYSICAL/CHEMICAL PROPERTIES

			1						
Jener	cal Instructions:								
If you	ou are reporting on a mand it are inappropriate to	ixture as defined in th mixtures by stating "N	e glossary, reply to qu A mixture."	uestions in Sectio					
notic	questions 4.06-4.15, if se that addresses the in imile in lieu of answern	nformation requested, y	ou may submit a copy or	oel, MSDS, or othe reasonable					
PART	A PHYSICAL/CHEMICAL DA	ATA SUMMARY		······································					
4.01 <u>CBI</u>	substance as it is man substance in the final	nufactured, imported, o L product form for manu	or ¹ technical grade(s) r processed. Measure t facturing activities, a gin to process the subs	he purity of the					
·		Manufacture	<u>Import</u>	Process					
	Technical grade #1	N/A % purity	N/A % purity	N/A purity					
	Technical grade #2	N/A % purity	N/A % purity	N/A % purit					
	Technical grade #3	N/A % purity		N/A % purity					
	¹ Major = Greatest quan		ce manufactured, import						
4.02	Submit your most recently updated Material Safety Data Sheet (MSDS) for the listed substance, and for every formulation containing the listed substance. If you posses an MSDS that you developed and an MSDS developed by a different source, submit your version. Indicate whether at least one MSDS has been submitted by circling the appropriate response. N/A IMPURITY								
	Yes	•••••	• • • • • • • • • • • • • • • • • • • •	1					
	No	No							
	Indicate whether the M	SDS was developed by y	our company or by a dif	ferent source.					
	Your company	•••••	• • • • • • • • • • • • • • • • • • • •						

__] Mark (X) this box if you attach a continuation sheet.

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No 2

4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

		Physical State							
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas				
Manufacture	1	2	3	4	5				
Import	1	2	3	4	5				
Process	1	2	3	4	5				
Store	1	2	3	4 .	5				
Dispose	1	2	3	4	5				
Transport	1	2	3	4	5				

Mark (X) this box if you attach a continuation sheet.

<u>CBI</u>	percentage particles importing listed su	g activities, indicage distribution of to the control of the cont	the listed substimeter. Measur ivities at the the physical st	tance by the time your areas.	vactivity nysical st ou import particle	o Do'n ate and or begi sizes f	ot includ particle n to proc or manufa	e sizes for ess the coturing
	Physical State		Manufacture	Import	Process	Store	Dispose	Transpo
	Dust	<1 micron	N/A	N/A	N/A	N/A	N/A	N/A
		1 to <5 microns	N/A	N/A	N/A	N/A	N/A	N/A
		5 to <10 microns	N/A	_N/A_	_N/A_	_N/A	_N/A	_N/A
	Powder	<1 micron	N/A	N/A	N/A	N/A	N/A	N/A
		1 to <5 microns	N/A	_N/A_	_N/A_	_N/A	_N/A	_N/A_
		5 to <10 microns	N/A	N/A	N/A	N/A	N/A	N/A
	Fiber	<1 micron	N/A	N/A	N/A	N/A	N/A	N/A
		1 to <5 microns	N/A	N/A	N/A	N/A	N/A	N/A
		5 to <10 microns	N/A	_N/A_	_N/A_	_N/A	_N/A_	_N/A
	Aerosol	<1 micron	N/A	N/A	N/A	N/A	N/A	N/A
		1 to <5 microns	N/A	N/A	N/A	N/A	N/A	N/A
		5 to <10 microns	N/A	N/A	N/A	N/A	N/A	N/A

_]	Mark (X)	this box	if you	attach a continuation	sheet.
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SECTION 5 ENVIRONMENTAL FATE

PART A RATE CONSTANTS AND TRANSFORMATION PRODUCTS

8	a .	Photolysis:					
		Absorption spectrum coefficient (peak)	UK	_ (1/M cm	at _	UK	ma
		Reaction quantum yield, 6	UK .		_ at _	UK	nm
		Direct photolysis rate constant, k _p , at	UK	1/hr	UK	<u> </u>	latitude
b).	Oxidation constants at 25°C:					
		For 10 ₂ (singlet oxygen), k _{ox}	UK				1/M h:
		For RO ₂ (peroxy radical), k _{ox}	UK			·	1/M h:
c	· ·	Five-day biochemical oxygen demand, BOD ₅	UK				mg/l
d	ı.	Biotransformation rate constant:					
		For bacterial transformation in water, k _b	UK				1/hr
		Specify culture	UK				
e	٠.						
		For base-promoted process, k _B	UK				1/M hi
		For acid-promoted process, k,	UK				1/M hi
		For neutral process, k_N	UK				1/hr
f	•	Chemical reduction rate (specify conditions)_					
g		Other (such as spontaneous degradation)	UK				<u> </u>

___ | Mark (X) this box if you attach a continuation sheet.

PART B PARTITION COEFFICIENTS

5.02	a.	Specify	the	half-life o	f	the	listed	substance	in	the	following	media.
------	----	---------	-----	-------------	---	-----	--------	-----------	----	-----	-----------	--------

		<u>Media</u>		Half-life (s	pecify unit	<u>s)</u>
		Groundwater	U	K		
		Atmosphere	U	K		
		Surface water	U	K		***
		Soil	U	K		
	b.	Identify the listed s life greater than 24	substance's known tra hours.	nsformation pro	ducts that l	have a half-
		CAS No.	Name	Half-life (specify uni	ts)	Media
		UK	UK	UK	in	UK
		UK	UK	UK	in	UK
		UK	UK	UK	in	UK
		UK	UK	UK	in	UK
5.03	Met	cify the octanol-water hod of calculation or cify the soil-water pa	determination		UK	at 25°C
 5.05		l type			UK	
	coe	fficient, K _{oc}	·····		UK	at 25°C
5.06	Spec	cify the Henry's Law Co	onstant, H		UK	_atm-m³/mole
<u></u>]	Mark	(X) this box if you a	attach a continuation	sheet.		

5.07 List the bioconcentration factor (BCF) of the listed substance, the species for which it was determined, and the type of test used in deriving the BCF.

Bioconcentration Factor	Species	<u>Test¹</u>
UK	UK	UK
UK	UK	UK
UK	UK	UK

¹Use the following codes to designate the type of test:

F = Flowthrough

S = Static

etail sales distribution Wholesalers distribution Retailers distribution Retailers dira-company transfer epackagers exture producers dicle producers direction annufacturers exporters deproducers depro	Transferred (kg/yr)	Value (\$/yr)
stribution Wholesalers stribution Retailers stra-company transfer epackagers exture producers ticle producers ther chemical manufacturers epocessors eporters her (specify)		
epackagers exture producers ticle producers ther chemical manufacturers processors eporters ther (specify)		
epackagers exture producers eticle producers ther chemical manufacturers processors eporters ther (specify)		
epackagers exture producers eticle producers ther chemical manufacturers processors eporters her (specify)		
ticle producers ther chemical manufacturers processors porters her (specify)		
ther chemical manufacturers processors sporters ther (specify)		
ther chemical manufacturers processors sporters ther (specify)		
processors sporters her (specify)		
her (specify)		
her (specify)		
bstitutes List all known commercia		
bstitutes List all known commercia		
r the listed substance and state the asible substitute is one which is economic current operation, and which reformance in its end uses.	cost of each substitut	opically feasible to use
Substitute	;	Cost (\$/kg)
N/A		N/A
N/A		N/A
N/A		
	Substitute N/A N/A N/A	Substitute N/A N/A

SECTION 7 MANUPACTURING AND PROCESSING INFORMATION



Jeneral Instructions:

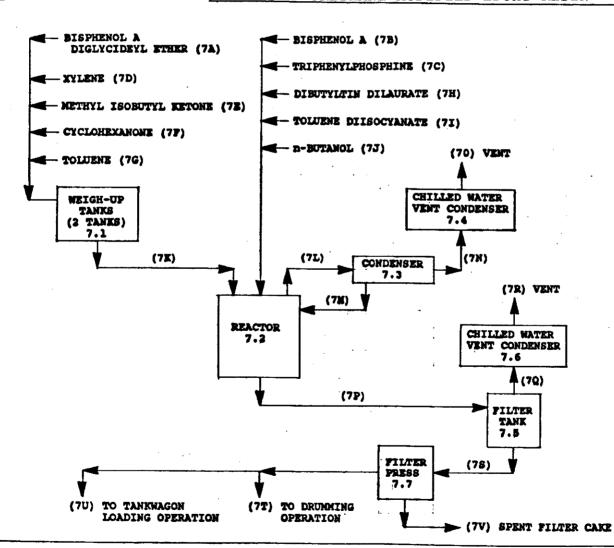
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

[Process type URETHANE MODIFIED EPOXY RESIN



Hark (X) this box if you attach a continuation sheet.

7.03 CBI	process emission s which, if combined treated before emisfrom one process to for question 7.01.	the instructions, p treams and emission , would total at lea ssion into the envir ype, provide a proce If all such emissi ocess block flow dia	points that st 90 percer onment. If ss block flo ons are rele	contain the list of all facility all such emission diagram using eased from more	ted substance and ty emissions if not ons are released the instructions than one process
[_]	Process type	URETHANE	MODIFIED	EPOXY RESIN	
	N	/A ≪90%			
			*		

7.04	Describe the typical equipment types for each unit operation identified in your
	process block flow diagram(s). If a process block flow diagram is provided for more
	than one process type, photocopy this question and complete it separately for each
	process type.
CRT	process type.
<u>CBI</u>	

[] Process type URETHANE MODIFIED EPOXY RESIN

Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition
7.1	WEIGH-UP TANKS	AMBIENT	ATM <u>OSPHERIC</u>	<u>CARBON ST</u> EEL STAINLESS
7.2	REACTOR	10-280	ATM <u>OSPHERIC</u>	STEEL
7.3	CONDENSER	10-177	ATMOSPHERIC	STAINLESS STEEL STAINLESS
7.4	VENT CONDENSER	_<4	ATMOSPHERIC	STEEL
7.5	FILTER TANK	10-177	ATMOSPHERIC	CARBON STEEL STAINLESS
7.6	VENT CONDENSER	<4	ATMOSPHERIC	STEEL
7.7	FILTER PRESS	10-121	4658	CARBON STEEL
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	_N/A	N/A
NT / 7\	NT / 7\	NT / 7A	27 / 2	37 / 3

__] Mark (X) this box if you attach a continuation sheet.

7.05 Describe each process stream identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.

CBI

Process type URETHANE MODIFIED EPOXY RESIN

Process Stream ID Code	Process Stream Description BISPHENOL A	Physical State ¹	Stream Flow (kg/yr)
7A	DIGLYCIDEYL ETHER	OL	78,884
<u>7B</u>	BISPHENOL A	SO	20,763
7C	TRIPHENYLPHOSPHINE	SO	123
7D	XYLENE	OL	36,357
7E	METHYL ISOBUTYL KETONE	OL	32,433
7F	CYCLOHEXANONE	OL	376
7G	TOLUENE	OL	1,110
<u>7H</u>	DIBUTYLTIN DILAURATE	OL	29

¹Use the following codes to designate the physical state for each process stream:

- GC = Gas (condensible at ambient temperature and pressure)
- GU = Gas (uncondensible at ambient temperature and pressure)
- S0 = Solid
- SY = Sludge or slurry
- AL = Aqueous liquid
- OL = Organic liquid
- IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

7.05 Describe each process stream identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.

CBI

Process type URETHANE MODIFIED EPOXY RESIN

Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
7I	TOLUENE DIISOCYANATE	OL	5,797
7J	N-BUTANOL	OL	701
7K	RAW MATERIALS	OL	149,160
7L	SOLVENT VAPORS	GU	68,790
7M	SOLVENT	OL	68,790
7N	SOLVENT VAPORS	GÜ	_<1
70	SOLVENT VAPORS	GÜ	≪ 1
7 <u>P</u>	UNFILTERED FINISHED PRODUCTS	OL	176,574

¹Use the following codes to designate the physical state for each process stream:

- GC = Gas (condensible at ambient temperature and pressure)
- GU = Gas (uncondensible at ambient temperature and pressure)
- S0 = Solid
- SY = Sludge or slurry
- AL = Aqueous liquid
- OL = Organic liquid
- IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

7.05 Describe each process stream identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.

CBI

[_] Process type URETHANE MODIFIED EPOXY RESIN

Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
7 <u>Q</u>	SOLVENT VAPORS	GU	<1
7R	SOLVENT VAPORS	GU	
7S	UNFILTERED FINISHED PRODUCT	OL	176,574
7T	FILTERED FINISHED PRODUCT	OL	33,615
<u>7U</u>	FILTERED FINISHED PRODUCT	OL	141,193
7V	SPENT FILTER WASTE & PRODUCT	SO	3,297
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

¹Use the following codes to designate the physical state for each process stream:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

S0 = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

] Mark (X) this box if you attach a continuation sheet.	
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7.06	Characterize each process stream identified in your process block flow diagram(s).
	If a process block flow diagram is provided for more than one process type, photocopy
<u>CBI</u>	this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)

Process ty	/pe URETH	ANE MODIFIED	EPOXY RESIN	
a.	b.	c.	d.	e.
Process Stream ID Code	Known Compounds ¹ BISPHENOL A	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
7A	DIGLYCIDEYL ETHER	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
7B	BISPHENOL A	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
7C	TRIPHENYLPHOSPHINE	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A

[_]

7.06 CBI	It a process block flow (this question and comple	s stream identified in your process block flow diagram(s). diagram is provided for more than one process type, photocopy te it separately for each process type. (Refer to the explanation and an example.)
[_]	Process type	URETHANE MODIFIED EPOXY RESIN

a.	b.	c.	d.	e.
Process Stream ID Code	Known Compounds ¹	Concentrations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	XYLENE	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
7E	METHYL ISOBUTYL KETONE	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
<u>7</u> F	CYCLOHEXANONE	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A

If a process block flow diagram is provided for more than one process type, this question and complete it separately for each process type. (Refer to the complete it separately for each process type)	photocopy
this question and complete it separately for each process type. (Refer to tinstructions for further explanation and an example.)	h

a.	b.	c.	d.	e.
Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
7G	TOLUENE	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
7H	DIBUTYLTIN DILAURATE	100%	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
7I	TOLUENE DIISOCYANATE	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	_N/A	N/A	N/A

7.06 CBI	If a process block flow diag	ream identified in your process block flow diagram(s). ram is provided for more than one process type, photocopy t separately for each process type. (Refer to the lanation and an example.)
[_]	Process type	URETHANE MODIFIED EPOXY RESIN

a.	b.	c.	d.	e.
Process Stream ID Code	Known Compounds ¹	Concentrations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
7J	N-BUTANOL	100 %	N/A	N/A
	N/A	N/A	_N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
7K	7A+7D+7E+7F+7G	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
7L	7D+7E	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
•	N/A	N/A	N/A	N/A
	N/A	_N/A	N/A	N/A

 \overline{X}] Mark (X) this box if you attach a continuation sheet.

7.06 Characterize each process stream identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)

Process type URETHANE MODIFIED EPOXY RESIN

a.	b.	c.	d.	e.
Process Stream ID Code	Known Compounds ¹	Concentrations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
7M	7D+7E	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
7N	7D+7E	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
70	AIR	>99.98% (E)(V	v) 7D+7E	<0.02%
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A

7.06 continued below

 \overline{X}] Mark (X) this box if you attach a continuation sheet.

7.06 CBI	If a process block flow diagram is provided for more than one process type, phothesis question and complete it separately for each process type. (Refer to the					
[_]	Process ty	ype URET	HANE MODIFIE	ED EPOXY RESIN		
	a.	ъ.	c.	d.	e.	
	Process Stream ID Code	Known Compounds ¹	Concentrations ² , (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)	
	7P	7 <u>B+7C+7H+7I+7J+7K-7</u>	0 100 %	N/A	N/A	
		N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	
	<u>70</u>	AIR	>98.98% (E)	FINISHED PRODUCTS	<0.02%	
		N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	
	7R	AIR	>98.98% (E)	(w) 7Q	<0.02%	
		N/A	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	

N/A

N/A

7.06 continued below

N/A

7.06 Characterize each process stream identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)

۵.	b.	c.	d.	e.
Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected ' Compounds	Estimated Concentrations (% or ppm)
7S	7P-7R	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
7T	FINISHED PRODUCT	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
<u>7U</u>	FINISHED PRODUCT	100 %	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A
	N/A	_N/A	N/A	N/A

7.06 continued below

	Process Stream ID Code		Concen- trations ^{2,3}	Other	
		Known Compounds ¹	(% or ppm)	Expected 'Compounds	Estimated Concentration (% or ppm)
-		SPENT FILTER CAKE		FINISHED PRODUCT	54%
		N/A	N/A	N/A	N/A
		N/A	_N/A	N/A	N/A
		N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A

Hark (X) this box if you attach a continuation sheet.

7.06 (continued)

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
1	N/A	N/A
	N/A	N/A
	N/A	N/A
2	N/A	N/A
	N/A	N/A
	N/A	N/A
3	N/A	N/A
	N/A	N/A
	N/A	N/A
4	N/A	N/A
	N/A	N/A
	N/A	N/A
5	N/A	N/A
	N/A	N/A
	N/A	N/A

²Use the following codes to designate how the concentration was determined:

A = Analytical result

E = Engineering judgement/calculation

³Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

Mark (X) this box if you attach a continuation sheet.

DRUMS (7V) BRUMS (8A) OFF-SI DISPOSAL SO WASTE	low diag
DRUMS 8.1 ORUMS (8A) OFF-SI DISPOSAL SO WASTE	
(7V) ————————————————————————————————————	
(7V) ————————————————————————————————————	
8.1 DISPOSAL SO WASTE	
WASTE	
	SOLID

__] Mark (X) this box if you attach a continuation sheet.

PART B RESIDUAL GENERATION AND CHARACTERIZATION

[_]	Process	type	• • •	URETHANE MODI	FIED EPOXY	RESIN	
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concentrations (% or ppm
	7V	I	(SY) (100°F)	FINISHED PRODUCT(E) (V	v <u>)</u> 54%	NONE	N/A
			• •	SPENT FILTER <u>CAKE(E) (W</u>)	46%	NONE	N/A
			N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
	_N/A .	N/A	N/A	N/A	N/A	N/A	N/A
			N/A	<u>N/A</u>	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A
. 05	continue	ed below .					

8.05 (continued)

3 Tan and addition makes the tank to the
For each additive package introduced into a process stream, specify the compounds
that are present in each additive package, and the concentration of each component
Assign an additive package number to each additive package and list this number in
column d. (Refer to the instructions for further explanation and an example.
Refer to the glossary for the definition of additive package.)

15,

Additive ackage Number	Components of Additive Package	Concentrations (% or ppm)
1	N/A	N/A
	N/A	N/A
	N/A	N/A
2	N/A	N/A
	N/A	N/A
	N/A	N/A
3	N/A	N/A
	N/A	N/A
	N/A	N/A
4	N/A	N/A
	N/A	N/A
	N/A	N/A
5	N/A	N/A
	N/A :	N/A
	N/A	N/A

⁴Use the following codes to designate how the concentration was determined:

A = Analytical result

E = Engineering judgement/calculation

8.05 continued below

__] Mark (X) this box if you attach a continuation sheet.

 $^{5}\mbox{Use}$ the following codes to designate how the concentration was measured:

V = Volume

W = Weight

 $\mathcal{F}_{n}^{\mathbf{C}}$

Code	Method	Detection Limit(± ug/l)
1	N/A	N/A
2	N/A	N/A
_3	N/A	N/A
_4	N/A	N/A
_5	N/A	N/A
_6	N/A	N/A

___] Mark (X) this box if you attach a continuation sheet.

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

8.06 Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)

J	Process	type	• • •	URETHAN	E MODIFI	ED EPOXY	RESIN		
	a.	b.	c.	d.	e	•	f.	g.	
	Stream ID Code	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)		gement dual (%) Off-Site	Costs for Off-Site Management (per kg)	Changes in Management Methods	
	<u>7</u> V	B82	1D	3,297	N/A	100%	\$0.32	21(1-1-8	
			N/A	N/A	N/A_	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	_N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A_	N/A	_N/A	N/A	

Use the codes provided in Exhibit 8-2 to designate the management methods

Mark (X) this box if you attach a continuation sheet.

[_]		Cha	ustion amber ture (°C)	Location of Temperature Monitor	In Co	ence Time mbustion (seconds)
	Incinerator	Primary	Secondary	Primary Secondary	Primary	Secondar
	1			\leftarrow	<u></u>	
	2					
	3					
	Yes	e if Office of the approximation	of Solid Wast	e survey has been submi onse.	tted in lieu	of respon
_	No	• • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	•••••••	
_						
	Complete the fare used on-si treatment bloc	te to burn t	ne residuals	identified in your pro	cess block or	residual
	are used ou-si	te to burn t	am(s). N/R	identified in your pro	Types Emission Avail	residual of s Data
	treatment bloc	te to burn t	am(s). N/R	A llution Device locatified in your pro	cess block or Types Emission	residual of s Data
3.23 <u>CBI</u>	Incinerator	te to burn t	am(s). Air Po	llution Device	Types Emission Avail	residual of s Data
	Incinerator	te to burn t	Air Po	llution Device A	Types Emission Avail	residual of s Data
	Incinerator 2 Indicate	if Office o	Air Po Control N/A N/A N/A	llution Device A Survey has been submi	Types Emission Avail N/A N/A	residual s of ns Data able
	Incinerator 1 2 Indicate by circl	if Office o	Air Pocantrol N/A N/A N/A N/A N/A N/A Solid Waste opriate response	llution Device A Survey has been submi	Types Emission Avail N/A N/A N/A	residual of respons
	Incinerator 1 2 3 Indicate by circl	if Office o	Air Pocontrol N/A N/A N/A N/A N/A Solid Waste opriate response	llution Device A Survey has been submitted in your properties.	Types Emission Avail N/A N/A N/A tted in lieu	residual of of of respons

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

<u>D</u>			Year in Which	Number o
Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Reco Are Mainta
Date of hire	X	X	DATE OF HIRE	INDEFINI'
Age at hire	<u> </u>	X	DATE OF HIRE	INDEFINI'
Work history of individual before employment at your				
facility	X	X	DATE OF HIRE	INDEFINI
Sex	X	X	DATE OF HIRE	INDEFINI'
Race	<u> </u>	X	DATE OF HIRE	INDEFINI
Job titles	X	X	DATE OF HIRE	INDEFINI
Start date for each job title	<u> </u>	X	DATE OF HIRE	INDEFINI'
End date for each job title	X	X	DATE OF HIRE	INDEFINI
Work area industrial hygiene monitoring data	X	N/A	1982	<u>INDEFINI</u>
Personal employee monitoring data	X	N/A	1982	<u>INDEFINI</u>
Employee medical history	X ,	X	DATE OF HIRE	INDEFINIT
Employee smoking history	X	X	DATE OF HIRE	<u>INDEFINI</u>
Accident history	X	X	DATE OF HIRE	INDEFINI
Retirement date	X	X	DATE OF RETIREMENT	<u>INDEFINI</u>
Termination date	X	X	DATE OF TERMINATION	INDEFINI
Vital status of retirees	X	X	DATE OF RETIREMENT	INDEFINI
Cause of death data	N/A	N/A	N/A	N/A

9.02 In accordance with the instructions, complete the following table for each activity in which you engage. ~BI []b. d. e. c. a. Total Total Yearly Process Category Quantity (kg) **Vorkers** Worker-Hours Activity Enclosed Manufacture of the N/AN/AN/Alisted substance Controlled Release N/A N/AN/A0pen N/A N/A N/A **Enclosed** On-site use as 5.797 Kg 3____ 40.5 reactant Controlled Release N/A N/A __N/A__ 0pen N/A N/A N/A Enclosed On-site use as N/A _N/A_ N/A nonreactant N/AN/A N/A Controlled Release N/A N/A 0pen N/AEnclosed N/A On-site preparation N/A N/Aof products Controlled Release N/A N/A N/A

N/A_

N/A

N/A

0pen

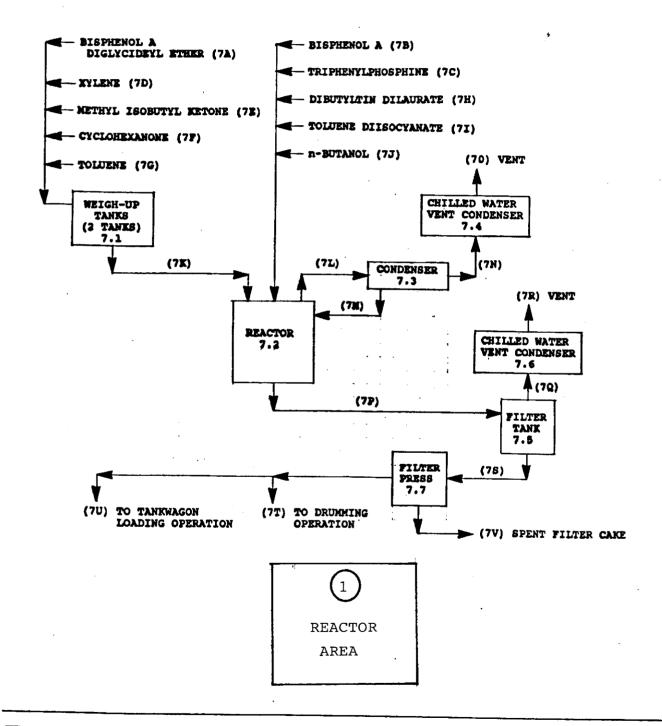
t Mark (X) this box if you attach a continuation sheet.

03 <u>[</u>	Provide a descriptivencompasses workers listed substance.	ve job title for each labor category at your facility that who may potentially come in contact with or be exposed to the
- []		
	Labor Category	Descriptive Job Title
•	A	CREW CHIEF
	В	N/A
	c	N/A
	D	
	E	N/A
	- F	N/A
	G	N/A
	н	N/A
	I	N/A
	J	N/A

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI ...

Process type URETHANE MODIFIED EPOXY RESIN



[] Mark (X) this box if you attach a continuation sheet.

9.05 CBI	may potentially come in additional areas not s	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add ar shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
[_]	Process type	URETHANE MODIFIED EPOXY RESIN
	Work Area ID	Description of Work Areas and Worker Activities
	1	REACTOR AREA - (CREW CHIEF LOAD TDI INTO REACTOR
	2	N/A
	3	N/A
	4	N/A
	5	N/A
	6	N/A
	7	N/A
	8	N/A
	9	N/A
	10	N/A
		<i>;</i>

[_]	Process typ	e	URETHANE MODIFIE	ED EPOXY RESIN	J.	
			• • • • • • • • • • • • • • • • • • • •	•••••		
	Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direct skin contact) SKIN CONTACT	Physical State of Listed Substance ¹	Average Length of Exposure Per Day	Number of Days per Year Exposed
	A	3	INHILATION	OL	D	18
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A_	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A
	N/A_	N/A	N/A	N/A	N/A	N/A
	GC = Gas (tempe GU = Gas (tempe inclu SO = Solid	condensible a crature and produced function and produced functions for the condensible crature and produces fumes, values fumes,	essure) Al at ambient Ol essure; Il pors, etc.)	Y = Sludge or sl L = Aqueous liqu L = Organic liqu L = Immiscible l (specify pha 90% water, 1	urry id id id iquid ses, e.g., 0% toluene)	bstance at
	A = 15 minu B = Greater exceedi C = Greater	lowing codes Ites or less Ithan 15 minu Ing 1 hour Ithan one hou Ing 2 hours	tes, but not E r, but not	 length of expo Greater than exceeding 4 h Greater than exceeding 8 h Greater than frequency 	2 hours, but a ours 4 hours, but a ours	

.] Mark (X) this box if you attach a continuation sheet.

[_]	Process type	•• URETHANE MODIF	'IED EPOXY RESIN
	Work area	1	REACTOR AREA
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m ³ , other-specify)
	A	.02 PPM (OSHA)	.02 PPM (OSHA)
	N/A	N/A	N/A

PART B WORK PLACE MONITORING PROGRAM

9.08 If you monitor worker exposure to the listed substance, complete the following table.

CBI

Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Records Maintained
Personal breathing zone	1	2	3	B&D	N	30+ YEARS
General work area (air)	_1	2	3	B&D	N	30+ YEARS
Wipe samples	N/A	N/A	N/A	N/A	N/A	N/A
Adhesive patches	N/A	N/A	N/A	N/A	N/A	N/A
Blood samples	_N/A	N/A_	N/A	N/A	N/A	N/A
Urine samples	N/A	N/A	N/A	N/A	N/A	N/A
Respiratory samples	N/A	N/A	N/A	N/A	N/A	N/A
Allergy tests	N/A	N/A	N/A	N/A	N/A	N/A
Other (specify)						
NA/	N/A	N/A	N/A	N/A	N/A	N/A
Other (specify)						
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other (specify)		;				
N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹Use the following codes to designate who takes the monitoring samples:

A = Plant industrial hygienist

B = Insurance carrier

C = OSHA consultant

D = Other (specify) IH TECHNICIAN

Mark (X) this box if you attach a continuation sheet.

9.09 <u>CBI</u>	For each sample type analytical methodolo	e identified in ques ogy used for each ty	tion 9.08, descri pe of sample.	be the type of \mathcal{M}_{s}	f sampling and
[_]	Sample Type	Sar	mpling and Analyt	ical Methodolo	ogy
	PERSONAL BREATHING ZONE	MARC	CALI REAGENT	,	
	GENERAL WORK AREA (AIR)	MARC	CALI REAGENT		
	N/A	N/A			
	N/A	N/A			
	N/A	N/A			
	N/A	N/A			
9.10 CBI	If you conduct perso specify the followin	onal and/or ambient and grant and gr	air monitoring fo ach equipment typ	r the listed s e used.	substance,
	Equipment Type ¹	Detection Limit ²	Manufacturer	Averaging Time (hr)	Model Number
	D	0.0035 PPM	GILLIAN	8	HFS-113A
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
	D = Other (specify) Use the following c E = Stationary moni F = Stationary moni G = Stationary moni	tion tube with pump MARCALI For the MARCALI For the modes to designate and tors located within tors located at planing equipment (specification of the modes to designate designate designate designate for the modes to designate	REAGENT bient air monitor work area facility t boundary y)	ring equipment	types:
<u></u> 1	Mark (X) this box if	you attach a contin	uation sheet.		

}	Tes	st Description	<u>n</u>		(vec	kly, mo	Frequency nthly, yea	arly, etc.
	N/I	1					N/A	
-	N/ <i>I</i>	A					N/A	
	N/A	A					N/A	
	N/A	A					N/A	
	N/I	A	W. M. A. H		-		N/A	
					,			
				;				

12 Describe the engineering cont to the listed substance. Pho process type and work area. I	rols that you tocopy this q	use to reduce or uestion and compl	r eliminate wor lete it separat	ker exposur ely for eac
Process type	URETHA	NE MODIFIED EP	OXYRESIN	
Work area				OR AREA
Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
Ventilation:				
Local exhaust	Y	1982	N	N/A
General dilution	<u> </u>	N/A	N	N/A
Other (specify)				
N/A	N/A	N/A	N/A	N/A
Vessel emission controls	<u> </u>	1985	N	N/A
Mechanical loading or packaging equipment	N/A	N/A	N/A	N/A
Other (specify)				
N/A	N/A	N/A	N/A	N/A

[] Mark (X) this box if you attach a continuation sheet.	

		UREHTANE MOD	Y RESIN	
Vork	area	***********	 1 REACTOR	AREA
	Equipment or P	rocess Modification	 Reduction in Exposure Per	
	NONE		N/A	
	N/A	We are the same and	N/A	
	N/A		N/A	
	N/A		N/A	
		;		

PART D PERSONAL PROTECTIVE AND SAFETY EQUIPMENT Describe the personal protective and safety equipment that your workers wear or use in each work area in order to reduce or eliminate their exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area. CBI Process type URETHANE MODIFIED EPOXY RESIN 1 REACTOR AREA Wear or Use Equipment Types (Y/N)Respirators Safety goggles/glasses Face shields Y Coveralls Ν Bib aprons Y Chemical-resistant gloves Y Other (specify) CHEMICAL SUITE Y N/A N/A

9.15 If workers use respirators when working with the listed substance, specify for each process type, the work areas where the respirators are used, the type of respirators used, the average usage, whether or not the respirators were fit tested, and the type and frequency of the fit tests. Photocopy this question and complete it separately for each process type.

C	RT	
	91	

Process	type	UREHTANE	MODIFIED	EPOXY	RESIN

Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
1	SUPPLIED AIR POS. PRESS DEMAND	E	Y	OT	11
N/A	N/A	N/A	N/A	N/A	N/A_
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

¹Use the following codes to designate average usage:

NOTE: RESPIRATOR NIOSH/MSHA APPROVED

A = Daily

B = Weekly

C = Monthly

D = Once a year

E = Other (specify) DURING TDI ADDITION

²Use the following codes to designate the type of fit test:

QL = Qualitative

QT = Quantitative

el au mo	escribe all of the work paintaine worker exposure athorized workers, mark a controlling practices, proviestion and complete it s	to the listed su reas with warning ide worker train	bstance (e.g. g signs, insu ing programs,	, restrict en are worker det etc.). Phot	trance only tection and cocopy this
Pr	ocess type UR	ETHANE MODIFI	ED EPOXY RE	SIN	
۷o	ork area	•••••	• • • • • • • • • • • • •	·· 1 REACT	OR AREA
	LIMITED ACCESS, TRA	INING PROGRAM	S, VENTILAT	ION (LOCAL	AND GENERAL
_	10.10, 6.20,	•			
_			10.1110/j.a. ap., ap. 41.41.41.41	**************************************	
le se	dicate (X) how often you taks or spills of the list parately for each proces ocess type	ted substance. s type and work	Photocopy thi area.	is question an	ean up routii d complete i
le se Pr Wo	eaks or spills of the list parately for each process cocess type UR	ted substance. s type and work EHTANE MODIFIE Less Than	Photocopy this area. ED EPOXY RE	SIN 1 REACTO 3-4 Times	R AREA
Pr Wo	eaks or spills of the list parately for each process occess type UR. ork area	ted substance. s type and work EHTANE MODIFI	Photocopy this area. ED EPOXY RE. 1-2 Times Per Day	SIN 1 REACTO 3-4 Times Per Day	R AREA More Than Times Per I
le se Pr Wo	eaks or spills of the list parately for each process cocess type UR. ork area	ted substance. s type and work EHTANE MODIFIE Less Than	Photocopy this area. ED EPOXY RE	SIN 1 REACTO 3-4 Times	R AREA Hore Than
Pr Wo Sw Va	eaks or spills of the list parately for each process occess type UR ork area	ted substance. s type and work EHTANE MODIFIE Less Than Once Per Day	Photocopy this area. ED EPOXY RE. 1-2 Times Per Day	SIN 1 REACTO 3-4 Times Per Day	R AREA More Than Times Per I
Pr Wo Ho Sw Va	eaks or spills of the list parately for each process occess type UR ork area	ted substance. s type and work EHTANE MODIFIE Less Than Once Per Day	Photocopy this area. ED EPOXY RE 1-2 Times Per Day N/A	SIN 1 REACTO 3-4 Times Per Day N/A	R AREA More Than Times Per I
Pr Wo Ho Sw Va	eaks or spills of the list parately for each process occess type UR ork area	Less Than Once Per Day N/A	Photocopy this area. ED EPOXY RE 1-2 Times Per Day N/A N/A	SIN 1 REACTO 3-4 Times Per Day N/A N/A	R AREA More Than Times Per I N/A N/A

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No 2
	Emergency exposure
	Yes 1
	No
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
_	
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes
	No 2
	If yes, where are copies of the plan maintained? PROCESSING DEPT. & IH OFFICE
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier
	OSHA consultant
	Other (specify)4
_	
ر <u>_</u>]	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A GENERAL INFORMATION

10.01	Where i	is your	facility	located?	Circle	all	appropriate	responses.
-------	---------	---------	----------	----------	--------	-----	-------------	------------

10.01	where is your facility located: Clicie all appropriate responses.
<u>CBI</u>	
[_]	Industrial area
	Urban area 2
	Residential area
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway 7
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway 9
	Other (specify)N/A10

Mark (X) this box if you attach a continuation sheet.

10.02	Specify the exact location of your is located) in terms of latitude and (UTM) coordinates.	d longitude or Unive	ersal Transverse	Mercader
	Latitude	····· _	34 • 03	' 39
	Longitude	······························	118 • 10	
	UTM coordinates Zone _	N/A , Northin	ng N/A , Eas	ting N/A
10.03	If you monitor meteorological condit the following information.	ions in the vicini	ty of your facil	ity, provide
	Average annual precipitation	~~~ <u> </u>		inches/yea
	Predominant wind direction			
10.04	Indicate the depth to groundwater be	low your facility.		
10.04				neters
10.04	Indicate the depth to groundwater be			meters
10.04 0.05 CBI		dicate (Y/N/NA) all	routine releas	es of the
0.05	For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)	dicate (Y/N/NA) all (Refer to the ins	routine releasestructions for a	es of the definition of
0.05 CBI	Depth to groundwater For each on-site activity listed, in listed substance to the environment.	dicate (Y/N/NA) all (Refer to the ins	routine release structions for a conmental Release Water	es of the definition of
0.05 CBI	For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity	dicate (Y/N/NA) all (Refer to the ins Envir Air N/A	routine releases tructions for a conmental Release Vater	es of the definition of the Land
0.05 CBI	Por each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity Manufacturing	dicate (Y/N/NA) all (Refer to the ins Envir Air N/A N/A	routine release tructions for a conmental Release Water N/A N/A	es of the definition of the de
0.05 CBI	Depth to groundwater For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity Manufacturing Importing	dicate (Y/N/NA) all (Refer to the ins Envir Air N/A N/A	routine release structions for a conmental Release Vater N/A N/A	es of the definition of the de
0.05 CBI	For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	dicate (Y/N/NA) all (Refer to the ins Envir Air N/A N/A	routine release structions for a conmental Release Vater N/A N/A N/A N/A	es of the definition of the land N/A N/A N/A N/A
0.05 CBI	For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity Manufacturing Importing Processing	Control Cont	routine release structions for a conmental Release Vater N/A N/A N/A N/A	es of the definition of the de
0.05 CBI	Depth to groundwater For each on-site activity listed, in listed substance to the environment. Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage	dicate (Y/N/NA) all (Refer to the ins Envir Air N/A N/A	routine release structions for a conmental Release Vater N/A N/A N/A N/A	es of the definition of the land N/A N/A N/A N/A

r ,	,							
10.06	Provide the following information for the listed substance and specify the level of precision for each item. (Refer to the instructions for further explanation and an example.)							
CBI								
[_]	Quantity discharged to the air	< 2	<u>kg/yr ± 25</u> %					
	Quantity discharged in wastewaters	-0-	kg/yr ± N/A %					
	Quantity managed as other waste in on-site treatment, storage, or disposal units	-0-	kg/yr ± <u>N/A</u> %					
	Quantity managed as other waste in off-site treatment, storage, or disposal units	-0-	kg/yr <u>+</u> <u>N/A</u> %					
	:							

__] Mark (X) this box if you attach a continuation sheet.

10.08 	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.					
[_]	Process type	RESIN				
	Stream ID Code	Control Technology	Percent Efficiency			
	70	CILLED WATER CONDENSER	98%			
	7 <u>R</u>	CILLED WATER CONDENSER	98%			
	N/A	N/A	N/A			
	N/A	N/A	N/A			
	N/A	N/A	N/A			
	N/A	N/A	N/A			
	N/A	N/A	N/A			
	N/A	N/A	N/A			

N/A

N/A

N/A

N/A

N/A

N/A

.__] Mark (X) this box if you attach a continuation sheet.

PART B RELEASE TO AIR Point Source Emissions -- Identify each emission point source containing the listed 10.09 substance in terms of a Stream ID Code as identified in your process block or residual treatment block flow diagram(s), and provide a description of each point source. Do not include raw material and product storage vents, or fugitive emission CBI [-]sources (e.g., equipment leaks). Photocopy this question and complete it separately for each process type. URETHANE MODIFIED EPOXY RESIN Process type Point Source ID Code Description of Emission Point Source 70 REACTOR VENT 7R____ TANK VENT N/A N/AN/A N/AN/A N/AN/A N/A N/A N/AN/A N/A

N/A

N/A

N/A

N/A

this box if you attach a continuation sheet.
--

(X)

(_)	Point Source ID Code	Physical State	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)	Maximum Emission Rate Duration (min/event)
	70	<u> </u>	.02	18	135	N/A NOT A <u>PRODUCE</u> R	.0005	18	45
•	7R_	<u></u>	0	18	0	N/A NOT A PRODUCER	0	18	0
	N/A	<u> N/A</u>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹Use the following codes to designate physical state at the point of release:

G = Gas; V = Vapor; P = Particulate; A = Aerosol; 0 = Other (specify)

AVG/HR/DAY

^{2.25 &}lt;sup>2</sup>Frequency of emission at any level of emission

³Duration of emission at any level of emission

 $^{^4}$ Average Emission Factor — Provide estimated (\pm 25 percent) emission factor (kg of emission per kg of production of listed substance)

10.11 Stack Parameters -- Identify the stack parameters for each Point Source ID Code identified in question 10.09 by completing the following table.

CBI

	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building Width(m)	Vent Type ³
	70	9.15	0.0762	4	UK	7.32	4.6	<u>v</u>
	7R	7.02	0.0508	4	UK	4.58	4.58	<u>v</u>
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
•	N/A_	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A_	N/A	N/A	_N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹Height of attached or adjacent building

H = Horizontal

V = Vertical

²Width of attached or adjacent building

³Use the following codes to designate vent type:

10.12 <u>CBI</u>	distribution for each Point Source ID	particulate form, indicate the particle since Code identified in question 10.09. it separately for each emission point source
<u></u>		70 c 7D
	Point source ID code	70 & 7R
	Size Range (microns)	Mass Fraction (% ± % precision)
•	< 1	N/A
	≥ 1 to < 10	N/A
	≥ 10 to < 30	N/A
	≥ 30 to < 50	N/A
	≥ 50 to < 100	N/A
	≥ 100 to < 500	N/A
	≥ 500	N/A
	Mark (X) this box if you attach a conti	inuation sheet.

0.13 CBI	Equipment Leaks — Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately for each process type.								
[_]	Process type URETH	ANE MODIFI	ED EPOX	Y RESIN					
	Percentage of time per year	that the li	sted sub	stance is	exposed	to this p	rocess		
	type	• • • • • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •		<u> </u>		
		Number	of Compos	nents in : d Substan	Service by	y Weight I	Percent		
	Equipment Type	Less than 5%	5-10%	11-25%			Greater		
	Pump seals ¹	Citati 3%	<u>J-10%</u>	11-23%	<u>26-75%</u>	76-99%	than 99%		
	Packed	N/A	N/A	N/A	N/A	N/A	N/A		
	Mechanical	N/A	N/A	N/A	N/A	N/A	N/A		
	Double mechanical ²		N/A	N/A	N/A	N/A	1		
	Compressor seals ¹	N/A_	N/A		N/A	N/A	N/A		
	Flanges	N/A_	<u>N/A</u>	N/A	N/A	N/A	2		
	Valves								
	Gas ³	N/A_	N/A	N/A	_N/A	N/A	N/A		
	Liquid	N/A	_N/A	_N/A_	N/A		2		
	Pressure relief devices (Gas or vapor only)	1	N/A	N/A	N/A	N/A	N/A		
	Sample connections								
	Gas	N/A	N/A	N/A	N/A	N/A	N/A		
	Liquid	N/A	N/A	N/A	N/A	N/A	N/A		
	Open-ended lines ⁵ (e.g., purge, vent)					***************************************	73.14,823		
	Gas	N/A_	N/A	N/A	N/A	N/A	N/A		
	Liquid	N/A	N/A	N/A	N/A	N/A	N/A		

10.13 continued on next page

¹List the number of pump and compressor seals, rather than the number of pumps or compressors

Mark (X) this box if you attach a continuation sheet.

10.13 (continued)

- ²If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively
- ³Conditions existing in the valve during normal operation
- ⁴Report all pressure relief devices in service, including those equipped with control devices
- ⁵Lines closed during normal operation that would be used during maintenance operations
- 10.14 Pressure Relief Devices with Controls -- Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.

a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel ¹	c. Control Device	d. Estimated Control Efficiency ²
1	5%	RUPTURE DISK	100
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A `	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

¹Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)

, ₁	Mark	(X)	this	box	if	vou	attach	а	continuation	sheet.
		\ /		~~		,, -, -,	~	•		

²The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions

10.15 Equipment Leak Detection -- If a formal leak detection and repair program is in place, complete the following table regarding those leak detection and repair procedures. Photocopy this question and complete it separately for each process type. NO FORMAL LEAK DETECTION/REPAIR PROGRAM CBI Process type URETHANE MODIFIED EPOXY RESIN Leak Detection Concentration (ppm or mg/m³) Frequency Repairs Repairs Measured at of Leak Initiated Completed Inches Detection Detection (days after (days after Device (per year) detection) initiated) from Source Equipment Type Pump seals N/A N/A N/A N/A N/A Packed N/A N/A N/A N/A N/A Mechanical Double mechanical N/A N/A N/A N/A N/A Compressor seals N/A N/A N/A N/A N/AFlanges N/AN/AN/A N/A N/A Valves Gas N/AN/A N/A N/A N/AN/A Liquid N/A N/A N/A N/A Pressure relief devices (gas or vapor only) N/A N/A N/A N/A N/ASample connections Gas N/A N/A N/A N/A N/ALiquid N/A____ N/A N/A ____ N/A N/A Open-ended lines Gas Liquid ______N/A _____N/A ___N/A _______ ¹Use the following codes to designate detection device: POVA = Portable organic vapor analyzer FPM = Fixed point monitoring 0 = 0ther (specify) Mark (X) this box if you attach a continuation sheet.

8

this

ход

if

you

attach

	10.16 <u>CBI</u>	liquid	raw mater	rial, interme	and Product S ediate, and p flow diagram	roduct s	missions - torage ves /A - ST	sel conta	ining th	ne liste	ed substand ONLY	y provid Se as id	ling the in lentified	nformation (in your prod	on each cess block
(w))		Vessel Type		Composition of Stored Materials ³	Throughput (liters per year)	Filling	Vessel Filling Duration (min)	Vessel Inner Diameter (m)		Volume	Vessel Emission Controls	Design Flow Rate	Vent Diameter (cm)	Control Efficiency (%)	Basis for Estimate
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	_N/A_
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	_N/A	N/A	N/A
		N/A	N/A_	N/A	N/A	N/A	N/A_	N/A	N/A_	N/A_	N/A	N/A	N/A	_N/A	N/A_
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A_	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	_N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A_	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

¹Use the following codes to designate vessel type:

²Use the following codes to designate floating roof seals:

F = Fixed roof

CIF = Contact internal floating roof

NCIF = Noncontact internal floating roof

EFR = External floating roof

= Pressure vessel (indicate pressure rating)

H = Horizontal

U = Underground

MS1 = Mechanical shoe, primary

MS2 = Shoe-mounted secondary

MS2R = Rim-mounted, secondary

LM1 = Liquid-mounted resilient filled seal, primary

LM2 = Rim-mounted shield ·

LMW = Weather shield

VM1 = Vapor mounted resilient filled seal, primary

VM2 = Rim-mounted secondary

VMW = Weather shield

³Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis

⁴Other than floating roofs

⁵Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units)

⁶Use the following codes to designate basis for estimate of control efficiency:

C = Calculations

S = Sampling

PART E NON-ROUTINE RELEASES

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases. $\rm N/A-NO$ RELEASES

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A

10.24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
2					
3			/		4 7
4					
5					
6					

Mark (X) this box if you attach a continuation sheet.

APPENDIX I: List of Continuation Sheets

Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

Question Number(1)	Continuation Sheet Page Numbers (2)
7.05	46-A THRU 46-B
7.06	47-A THRU 47-G
N/A	N/A

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